

**CONTROL OF MULTI-ZONE AND MULTI-STAGE HVAC SYSTEM****ABSTRACT OF THE DISCLOSURE**

A control for controlling a multi-zone HVAC system, wherein the heating or cooling equipment is operable in multiple stages, takes the demand on the system over time into account when determining an appropriate stage. In particular, a time integral of the system demands is utilized along with a current system demand to determine an appropriate stage. In this manner, a weakness in the prior art of allowing a long-term, small difference between the desired set point and the actual temperature in the various zones is addressed.

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